

Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method for integrating a network application at a network device with different directory servers without modifying application code at the network device, the network device configured to perform directory services with the directory servers ~~each server having a different schema,~~ the method comprising:

storing in memory of the network device an attribute mapping table,
~~providing a~~ the table mapping attributes attribute names utilized by the network application with corresponding attribute names used by the directory servers available to the network application, wherein at least two of the directory servers have different schema and wherein at least one of the attribute names used by the directory servers is different from the corresponding attribute name used by the network application;

~~identifying searching in the~~ attribute mapping table to identify the attribute name used by one of the directory servers corresponding to ~~an~~ one of the attribute names utilized by the network application ~~requested by the application;~~

sending from the network device, a request containing the identified directory server attribute name to the corresponding directory server; and

receiving information in response to the request.

Claim 2 (currently amended): The method of claim 1 wherein the application is a voice and unified messaging ~~communication~~ application.

Claim 3 (original): The method of claim 1 wherein the directory servers are configured for LDAP.

Claim 4 (original): The method of claim 1 wherein the number of different directory servers is greater than two.

Claim 5 (original): The method of claim 1 further comprising running an IP based software.

Claim 6 (original): The method of claim 1 wherein sending a request comprises sending a search request.

Claim 7 (original): The method of claim 1 wherein sending a request comprises sending a messaging request.

Claim 8 (original): The method of claim 1 further comprising loading the table into memory when the application is run.

Claim 9 (original): The method of claim 1 further comprising providing meta-data specifying the directory servers available to the application.

Claim 10 (currently amended): A computer program product for integrating a network application with different directory servers without modifying application code at the network device, the network device configured to perform directory services with the directory servers, the computer program product comprising:

code that ~~provides a~~ stores in memory of the network device an attribute mapping table, the table mapping attributes attribute names utilized by the network application with corresponding attribute names used by the directory servers available to the network application, wherein at least two of the directory servers have different schema and wherein at least one of the attribute names used by the directory servers is different from the corresponding attribute name used by the network application;

code that ~~identifies in~~ searches the attribute mapping table to identify the attribute name used by one of the directory servers corresponding to an one of the attribute names utilized by the network application ~~requested by the application;~~

code that sends from the network device, a request containing the identified directory server attribute name to the corresponding directory server;

code that receives information in response to the request; and

a computer readable medium that stores said computer codes.

Claim 11 (original): The computer program product of claim 10 further comprising code that accesses meta-data specifying directory servers available to the application.

Claim 12 (original): The computer program product of claim 10 further comprising code that loads the table at least temporarily into memory when the application runs.

Claim 13 (original): The computer program product of claim 10 wherein the computer readable medium is selected from the group consisting of CD-ROM, floppy disk, tape, flash memory, system memory, hard drive, and data signal embodied in a carrier wave.

Claim 14 (currently amended): A system for integrating a network application at a network device with different directory servers without modifying application code at the network device, the network device configured to perform directory services with the directory servers, the system comprising:

a table mapping attributes names utilized by the network application with corresponding attribute names used by the directory servers, wherein at least two of the directory servers have different schema and wherein at least one of the attribute names used by the directory servers is different from the corresponding attribute name used by the network application;

memory that at least temporarily stores the table; and

a processor that identifies in the table the attribute name used by one of the directory servers corresponding to an one of the attribute names utilized by the network application ~~requested by the network application~~ and sends a request containing the identified directory server attribute name to the corresponding directory server.

Claim 15 (currently amended): The system of claim 14 wherein the application is a voice and unified communication-messaging ~~communication-messaging~~ application.

Claim 16 (original): The system of claim 14 wherein the processor is configured to send the request to an LDAP server.

Claim 17 (original): The system of claim 14 wherein the application is configured to communicate with a messaging server.

Claim 18 (original): The system of claim 14 wherein the application is configured for communicating with a SNPP API.

Claim 19 (currently amended): A system for integrating a network application at a network device with different directory servers without modifying application code at the network device, the network device configured to perform directory services with the directory servers, the system comprising:

a table mapping ~~attributes~~ attribute names utilized by the network application with corresponding attribute names used by directory servers available to the network application, wherein at least two of the directory servers have different schema and wherein at least one of the attribute names used by the directory servers is different from the corresponding attribute name used by the network application;

means for identifying in the table the attribute name used by one of the directory servers corresponding to ~~an~~ one of the attribute names utilized by the network application ~~requested by the application;~~ and

means for sending from the network device, a request containing the identified directory server attribute name to the corresponding directory server ~~searching the directory server for the requested attribute with the identified directory server attribute name.~~

Claim 20 (original): The system of claim 19 wherein means for searching the directory server comprises:

sending a request with the attribute name corresponding to schema for one of the directory servers to the corresponding directory server and receiving information in response to the request.

Claim 21 (currently amended): The system of claim 19 wherein the application is a voice and unified communications messaging application.

Claim 22 (original): The system of claim 19 wherein means for searching the directory server includes using LDAP.

Claim 23 (new): The method of claim 1 wherein the attribute name used by the network application is an LDAP attribute name alias used by the application and the attribute name used by the directory server is the attribute name defined in the schema of the directory server.

Claim 24 (new): The method of claim 23 wherein at least one of the directory servers is a Netscape directory server and at least one of the directory servers is a DCL directory server.

Claim 25 (new): The method of claim 1 wherein sending a request comprises sending a request for a subscriber profile.